is guaranteed. Such materials are, for example, PMMA, acrylic, silicone, or a combination of these materials.

Before paragraph [0035], insert the heading --BRIEF DESCRIPTION OF THE DRAWINGS--.

Before paragraph [0039], insert the heading --DETAILED DESCRIPTION--.

~~IN THE~~ CLAIMS:

Please amend claims 1-14 and 16 as follows:

1. (Amended) A method for correcting visual defects of an eye comprising:

a coherent light source,

a beam modification device for shaping and deflecting a beam of the coherent light source, and

a wavefront analyzer device for analyzing a wavefront of an optical path in the eye.

2. (Amended) The device as recited in Claim 1, further comprising a topography analyzer unit for analyzing the surface of the eye.

3. (Amended) The device as recited in claim 1, further comprising a control unit for at least one of processing signals of the wavefront analyzer unit; processing signals of the topography analyzer unit; for controlling the coherent light source; and for controlling the beam modification device.

4. (Amended) The device as recited in claim 1, wherein the beam modification device is designed in such a manner that at least one of an intraocular lens; an eye lens; the cornea of the eye; a contact lens; an implantable contact lens (ICL); and a spectacle lens are processable via the beam.

5. (Amended) The device as recited in claim 1, wherein the coherent light source is a laser.

6. (Amended) The device as recited in claim 3, wherein the control unit is designed in such a manner that the analysis of the optical path in the eye and/or the analysis of the surface of the eye can be carried out virtually simultaneously with the processing of an optical element via the beam of the coherent light source.

7. (Amended) A method for correcting visual defects of an eye comprising:

determining an optical path of the eye via a wavefront analysis; and

calculating an ideal optical system which would result in a correction of the visual defects of the eye.

8. (Amended) The method as recited in claim 7, further comprising analyzing the topography of the eye.

9. (Amended) The method as recited in claim 7, wherein the ideal optical system is provided as a function of data obtained from at least one of the wavefront analysis and the topography analysis.

10. (Amended) The method as recited in claim 7, further comprising calculating shot positions for manufacturing the ideal optical system as a function of data obtained from at least one of the wavefront analysis and the topography analysis.

11. (Amended) The method as recited in claim 7 further comprising reshaping the old optical system of the eye into the calculated ideal optical system.

12. (Amended) The method as recited in claim 7, wherein the optical system includes at least one of the eye lens; an intraocular lens; the cornea of the eye; a contact lens; an ICL; and at least one spectacle lens.

13. (Amended) An ideal optical system manufactured according to the method of claim 7 wherein the optical system includes elements made of materials which are suitable for at least one of implantation; adhesion; and ablation.

14. (Amended) The ideal optical system as recited in claim 13 wherein the optical system includes elements having refractive and/or diffractive structures.

16. (Amended) The method as recited in claim 7 further including completely correcting a visual defect of an eye.

Please add new claims 17 to 20:

17. The device as recited in claim 5 wherein the laser is a spot scanning excimer laser.

18. The system as recited in claim 13 wherein the materials are plastic or glass.

19. An ideal optical system manufactured using one of the devices according to claim 1 wherein the optical system includes elements made of materials which are suitable for at least one of implantation; adhesion; and ablation.

20. The system as recited in claim 19 wherein the materials are plastic or glass.

REMARKS

Consideration of this application, as amended, is respectfully requested.

By virtue of this amendment, claims 1-14 and 16 have been amended in order to conform the claims of the international application, of which this application is a national stage application, to proper U.S. Patent and Trademark Office practice. Support for all new claims is found in the specification as originally filed. No new matter has been added, and no new claims have been added.